

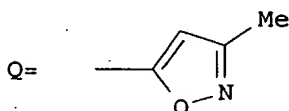
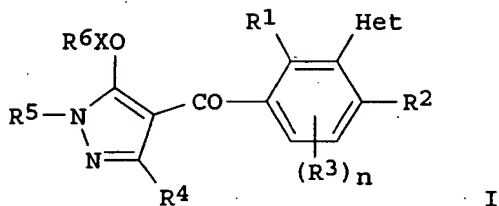
L36 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN  
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 TI Preparation of novel heterocycle-substituted benzene derivatives and herbicides  
 IN Adachi, Hiroyuki; Yamaguchi, Masao; Miyahara, Osamu; Tanaka, Katsunori; Kawana, Takashi; Takahashi, Akihiro; Koguchi, Masami; Yamagishi, Hideki  
 PA Nippon Soda Co., Ltd., Japan  
 SO PCT Int. Appl., 154 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
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 ICS C07D403-10; C07D413-10; C07D417-10; A01N043-56; A01N043-76; A01N043-78; A01N043-80; A01N043-82  
 CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9741105	A1	19971106	WO 1997-JP1423	19970424 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	JP 10237072	A2	19980908	JP 1997-38505	19970206 <--
	AU 9724058	A1	19971119	AU 1997-24058	19970424 <--
	CN 1216534	A	19990512	CN 1997-194086	19970424 <--
	WO 9821187	A1	19980522	WO 1997-JP3736	19971016 <--
	W: JP RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	ZA 9709402	A	19980520	ZA 1997-9402	19971021 <--
PRAI	JP 1996-131170	A	19960426	<--	
	JP 1996-317154	A	19961113	<--	
	JP 1996-356866	A	19961226	<--	
	WO 1997-JP1423	W	19970424	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9741105	ICM	C07D231-20
	ICS	C07D403-10; C07D413-10; C07D417-10; A01N043-56; A01N043-76; A01N043-78; A01N043-80; A01N043-82
WO 9821187	ECLA	A01N043/80; C07D261/08; C07D413/10+261+231
OS MARPAT 127:346402		
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AB Benzoylpyrazole derivs. represented by general formula [I; R1, R2, R3 = halo, C1-6 alkyl, C1-6 alkoxy, NO2, cyano, C1-6 haloalkyl, haloalkoxy, or alkylthio, alkylsulfinyl, or alkylsulfonyl; n = 0, 1, 2; Het = an optionally substituted saturated or unsatd. 5-membered heterocyclic group which is bonded to the benzene ring at a carbon atom and which contains one to four hetero-atoms selected from among N, O and S and is substituted with R7 and R8; R4 = hydrogen, C1-6 alkyl, haloalkyl, or hydroxyalkyl, C1-6 alkoxy-C1-6 alkyl; R5 = C1-6 alkyl, C3-8 cycloalkyl, (un)substituted Ph; X = SO2, (CH2)mCO, optionally alkyl-substituted C1-6 alkylene, a single bond; wherein m = 0, 1-3; R6 = optionally substituted phenyl], are prepared. The above compds. exhibit an excellent herbicidal activity with good selectivity for weeds at a low dosage. Thus, 4-[2,4-dichloro-3-(3-methyl-1,2-isoxazol-5-yl)benzoyl]-1,3-dimethyl-5-hydroxypyrazole was dissolved in CH2Cl2, followed by adding an aqueous K2CO3, p-toluenesulfonyl chloride, and benzyltrimethylammonium chloride in this order, and the resulting mixture was stirred at room temperature overnight to give I (R1 = R2

= Cl, R3 = H, R4 = R5 = Me, R6X = p-toluenesulfonyl, Het = Q). I (R1 = F, R2 = SO2Me, R3 = R4 = H, R5 = Me, R6X = p-toluenesulfonyl, Het = Q) at 250 g/ha postemergence controlled 100% Abutilon theophrasti, Echinochloa crus-galli, Xanthium pensylvanicum, and Setaria faberii and gave no damage to corn seedlings.

ST isoxazolylbenzoylpyrazole prepn herbicide; benzoylpyrazole isoxazolyl prepn herbicide

IT Herbicides

(preparation of novel heterocycle-substituted benzene derivs. as herbicides)